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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,513	08/02/2006	Stuart Brian William Kay	604-780	8424
23117 NIXON & VAN	7590 05/10/201 NDERHYE. PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	GRAY, PHILLIP A		
ARLINGTON,	VA 22203		ART UNIT	PAPER NUMBER
			3767	
			MAIL DATE	DELIVERY MODE
			05/10/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Appl	ication No.	Applicant(s)				
Office Action Summary		10/5	81,513		KAY ET AL.			
		Exar	niner		Art Unit			
			p Gray		3767			
The M Period for Reply	IAILING DATE of this communic I	ation appears o	n the cover shee	et with the co	orrespondence ad	ldress		
WHICHEVER - Extensions of ti after SIX (6) MG - If NO period for - Failure to reply Any reply receive	IED STATUTORY PERIOD FOR IS LONGER, FROM THE MARTHS from the mailing date of this communication is specified above, the maximum state within the set or extended period for reply were doubt the Office later than three months afterm adjustment. See 37 CFR 1.704(b).	ILING DATE Of 37 CFR 1.136(a). In nication. Itory period will apply ill, by statute, cause the state of the s	F THIS COMMU no event, however, ma and will expire SIX (6) ne application to become	UNICATION ay a reply be time MONTHS from the ne ABANDONED	ely filed ne mailing date of this coorsists (35 U.S.C. § 133).			
Status								
1)⊠ Pesno	neive to communication(s) filed	on 01 Februar	v 2010					
·	Responsive to communication(s) filed on <u>01 February 2010</u> . This action is FINAL . 2b) This action is non-final.							
<u>'</u>	, _							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
010300	in accordance with the practice	s under Ex part	e Quayre, 1000	O.D. 11, 40	J O. J . 213.			
Disposition of C	Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the ap	plication.						
4a) Of t	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(Claim(s) is/are allowed.							
6)⊠ Claim(Claim(s) <u>1-11</u> is/are rejected.							
7)	s) is/are objected to.							
· · · · · · · · · · · · · · · · · · ·	s) are subject to restricti	on and/or elect	ion requirement.					
Application Pap	pers							
<u>_</u>	ecification is objected to by the	Evaminor						
	•		or h) Dobiected	to by the F	vaminer			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 3	5 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notice of Draft	rences Cited (PTO-892) sperson's Patent Drawing Review (PT sclosure Statement(s) (PTO/SB/08)	O-948)	Paper	iew Summary (No(s)/Mail Dat e of Informal Pa	PTO-413) e ttent Application			
Paper No(s)/Mail Date 6) Other:								

DETAILED ACTION

This office action is in response to applicant's communication of 2/1/2010.

Currently claims 1-11 are pending and rejected below.

Response to Arguments

Applicant's arguments filed 2/1/2010 have been fully considered but they are not persuasive. The elements disclosed in LUND are fully capable of satisfying all structural, functional, spatial, and operational limitations in the amended claims, as currently written, and the rejection is made and proper. Applicant's argue that the seal formation is not "at the end face" of the plunger. It is examiner's position that the term "at" means:

- 1.
- a. In or near the area occupied by; in or near the location of: at the market; at our destination.
- b. In or near the position of: always at my side; at the center of the page.
- 2. To or toward the direction or location of, especially for a specific purpose: *Questions* came at us from all sides.

It is examiner's position that the seal formation (42) is provided "at" the end face of plunger 32, as shown in figures 4 and 6, since it is "near the area occupied by" and "near the position of" the end face; further it is towards the direction and location of the end face.

Concerning the claim limitation of "whereby when foam enters the syringe barrel, flow of foam pushes the syringe plunger back in the syringe barrel as the syringe barrel fills with foam", it is examiners position that this is a functional claim limitation. It is

further examiner's position that LUND prior art would perform this function because as the two chemicals mixed there viscosity and density would change causes them to harden and this would move the plunger head during this mixing, and also when connected to the seal formation.

It is strongly recommended applicant greater define the exact spatial and structural relationship of the seal formation and the plunger end face (or front face), if that is where the applicant feels there novelty lies (i.e. seal formation formed integral, abuts, connected to, etc.). It is further recommended that applicant further define what surface of the plunger is the end face (proximal or distal), if that is where the novelty lies.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

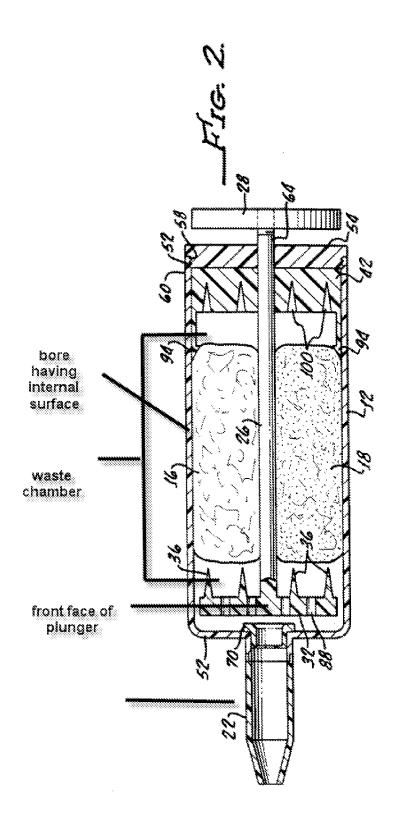
Claims 1-11 rejected under 35 U.S.C. 102(b) as being anticipated by Lund (U.S. Patent 5,273,190). Lund discloses a syringe for dispensing foam (see abstract and paragraph at column 1 lines 15-25) comprising a syringe plunger with front face(32),

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and end face opposite of the front face side surface, with a waste chamber (interior space which components 16 and 18 are contained in), a syringe barrel (12) with a nozzle (22) and bore (internal cavity and internal surface of 12), a seal formation (42) for sealing between the front face of plunger and said inner surface of the bore. See figure 2 and figure 4 marked up below.

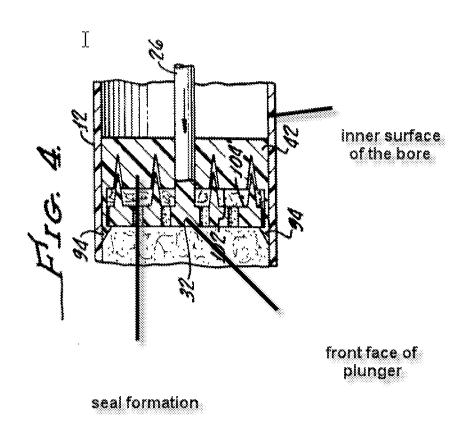
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Concerning claim 1 and seal formation.



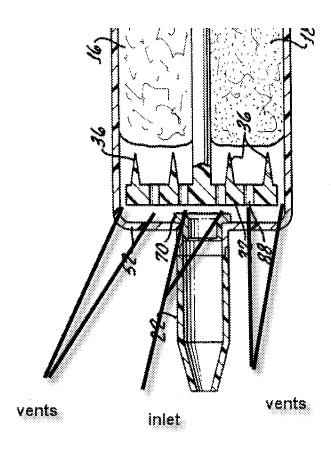
Concerning claim 2 and vents note area around plunger face 32 or holes 88 as shown in figure 2.

Concerning claim 3 note flexible walls (top portion of 42). Concerning claims 4-5 note chamber is substantially empty of air (fig 2) and retained within a rigid wall chamber/frame (unit as shown in figure 3 and wall portions 54 and syringe barrel walls

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12). Concerning claim 6 it is examiners position that element 42 is a flexible wall within the device but substantially inextensible (incapable of being extended or stretched), Element 32 is of a finite size and does not expand or stretch. Concerning claim 7 note inlets (inner most 88). Concerning claim 8 see marked up lower part of figure 2 below.



Concerning claims 9-10 and kit source of foam as gas and liquid note elements

16 and 18 pressurized liquid/gas. Concerning the method with the steps of connecting

the syringe to the foam (figure 2) dispensing a flow of foam into the syringe (figure 5), whereby the flow of foam initially enters the chamber (also shown in figure 5) and the flow of foam pushes the plunger back in the barrel and fills syringe (figure 6).

It is examiners position that the contents of 16 and 18 are sealed from the area outside for the front face of the plunger, "thereby preventing flow of foam past the front face of the plunger" see figure 2. Further note various holes or vents internal waste chamber (100, area before 100, 88, space outside of 32 around 104, outside opening near 58, ect.).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gray whose telephone number is (571)272-7180. The examiner can normally be reached on Monday through Friday, 8:30 a.m. to 4:30 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Phillip Gray/ Examiner, Art Unit 3767

/Melba Bumgarner/ Primary Examiner, Art Unit 3767